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## CLAIMS

## What is claimed is:

1. A gas flow device for delivering a flow of breathable oxygen, comprising:

a body formed from a first material, the first material having a first
burning point in the presence of pressured pure oxygen, the body securable to a
source of compressed oxygen;

an element having a pressure reducing feature and an oxygen flow path from the source of compressed oxygen to the pressure reducing element, the flow path bounded by a second material, the second material having a second burning point in the presence of pressurized pure oxygen that is higher than the first burning point; and

a securing mechanism to secure the element to the body.

- 2. The gas flow device of Claim 1 wherein the securing mechanism includes a member that locks the element within the body.
- 15 3. The gas flow device of Claim 2 wherein the member is a fitting.
  - 4. The gas flow device of Claim 3 wherein the fitting is a pressure gauge.
  - 5. The gas flow device of Claim 3 wherein the fitting is a check valve.
  - 6. The gas flow device of Claim 3 wherein the fitting is a hose connector.
- 7. The gas flow device of Claim 1 wherein the first material comprises aluminum and the second material comprises brass.
  - 8. The gas flow device of Claim 1 wherein the securing mechanism includes a coupling for attaching the element to an inner wall of the body.
  - 9. The gas flow device of Claim 1 wherein the first material and the second material are metal alloys.

- 10. The gas flow device of Claim 1 wherein the compressed oxygen is over about 500 pounds per square inch.
- 11. The gas flow device of Claim 1 wherein the body is fabricated from a unitary piece of the first material.
- 5 12. The gas flow device of Claim 1 wherein the source of compressed oxygen is a supply vessel.
  - 13. The gas flow device of Claim 12 wherein the body is securable to the supply vessel using a yoke.
  - 14. The gas flow device of Claim 13 wherein the yoke is integral with the body.
- 10 15. A gas flow device for delivering a flow of breathable oxygen, comprising: a body formed from an aluminum alloy and being securable to a pressurized supply vessel;

an element formed from a brass alloy and having a pressure reducing feature and an oxygen flow path from the pressured supply vessel to the pressure reducing feature; and

- a securing mechanism to secure the element to the body.
- 16. The gas flow device of Claim 15 wherein the securing mechanism includes a member that locks the element to the body.
- 17. The gas flow device of Claim 16 wherein the member is a fitting.
- 20 18. The gas flow device of Claim 17 wherein the fitting is a pressure gauge.
  - 19. The gas flow device of Claim 17 wherein the fitting is a check valve.
  - 20. The gas flow device of Claim 17 wherein the fitting is a hose connector.

- 21. The gas flow device of Claim 15 wherein the securing mechanism includes a coupling for attaching the element to an inner wall of the body.
- 22. The gas flow device of Claim 15 wherein the securing mechanism includes mated threads.
- 5 23. The gas flow device of Claim 15 wherein the oxygen flow path can be pressurized to at least 500 pounds per square inch.
- 24. A gas flow device for delivering breathable oxygen, comprising:

  a main body securable to a supply of pressurized oxygen, the main body
  fabricated from an aluminum alloy;

an element for receiving the pressurized oxygen at an inlet, the element fabricated from a brass alloy and having a plurality of passages, including:

a main passage extending between the inlet and a pressure reducing feature;

- a gauge passage extending between the main passage and a gauge port; and
- a vent passage extending between atmosphere and an area downstream of the pressure reducing feature.
- The gas flow device of Claim 24 wherein the main body includes a yoke for mounting with a supply vessel.
  - 26. The gas flow device of Claim 25 wherein the yoke is integral with the main body.
  - 27. The gas flow device of Claim 24 wherein the element is secured to an inner wall of the main body.
- 25 28. A method of fabricating a gas flow device for delivering a flow of breathable oxygen, comprising:

forming a body from a first material, the first material having a first burning point in the presence of pressured pure oxygen, the body being securable to a source of compressed oxygen;

forming an element having a pressure reducing feature and an oxygen flow path from the source of compressed oxygen to the pressure reducing element, the flow path bounded by a second material, the second material having a second burning point in the presence of pressurized pure oxygen that is higher than the first burning point; and

securing the element to the body.

- 10 29. The method of Claim 28 wherein securing includes locking the element within the body.
  - 30. The method of Claim 29 wherein the member is a fitting.
  - 31. The method of Claim 30 wherein the fitting is a pressure gauge.
  - 32. The method of Claim 30 wherein the fitting is a check valve.
- 15 33. The method of Claim 30 wherein the fitting is a hose connector.
  - 34. The method of Claim 28 wherein the first material comprises aluminum and the second material comprises brass.
  - 35. The method of Claim 28 wherein securing includes attaching the element to an inner wall of the body.
- 20 36. The method of Claim 28 wherein the first material and the second material are metal alloys.
  - 37. The method of Claim 28 wherein the compressed oxygen is over about 500 pounds per square inch.

- 38. The method of Claim 28 wherein the body is fabricated from a unitary piece of the first material.
- 39. The method of Claim 28 wherein the source of compressed oxygen is a supply vessel.
- 5 40. The method of Claim 39 wherein the body is securable to the supply vessel using a yoke.
  - 41. The method of Claim 40 wherein the yoke is integral with the body.
  - 42. A method of fabricating a gas flow device for delivering a flow of breathable oxygen, comprising:
- forming a body from an aluminum alloy and being securable to a pressurized supply vessel;

forming an element from a brass alloy and having a pressure reducing feature and an oxygen flow path from the pressured supply vessel to the pressure reducing feature; and

- securing the element to the body.
- 43. The method of Claim 42 wherein securing includes locking the element to the body with a member.
- 44. The method of Claim 43 wherein the member is a fitting.
- 45. The method of Claim 44 wherein the fitting is a pressure gauge.
- 20 46. The method of Claim 44 wherein the fitting is a check valve.
  - 47. The method of Claim 44 wherein the fitting is a hose connector.
  - 48. The method of Claim 42 wherein securing includes attaching the element to an inner wall of the body.

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- 49. The method of Claim 42 wherein securing comprises engaging mated threads.
- 50. The method of Claim 42 wherein the oxygen flow path can be pressurized to at least 500 pounds per square inch.
- 51. A method of fabricating a gas flow device for delivering breathable oxygen, comprising:

from an aluminum alloy, fabricating a main body securable to a supply of pressurized oxygen;

from a brass alloy, fabricating an element for receiving the pressurized oxygen at an inlet, the element having a plurality of formed passages, including:

a main passage extending between the inlet and a pressure reducing feature;

a gauge passage extending between the main passage and a gauge port; and

a vent passage extending between atmosphere and an area downstream of the pressure reducing feature.

- 52. The method of Claim 51 wherein the main body includes a yoke for mounting with a supply vessel.
- 53. The method of Claim 52 wherein the yoke is integral with the main body.
- 54. The method of Claim 51 wherein the element is secured to an inner wall of the main body.